Non-Conventional Energy in Orissa

261. SHRI RANJIB BISWAL : Will the Minister of NON-CONVENTIONAL EVERGY SOURCES be pleased to state :

(a) whether Orissa is laging behind in the field of generating energy through non-conventional sources;

(b) if so, the reasons therefor;

(c) whether their is a vast scope for increasing and developing evergy through non-conventional souces;

(d) if so, the steps in that regard in Eighth Five Year plan; and

(e) the plan formulated to develop non-conventional evergy in Ninth Five Year Plan?

THE MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (CAPT. JAI NARAYAN PRASAD NISHAD) : (a) Ministry of Non-Conventional Evergy Sources is implementing various programmes for generating evergy through Non-Conventional Evergy Sources in the Country including in the State of Orissa. Various Systems/devices installed in the State of Orissa and in the country are given in attached Statement-I.

(b) Does not arise.

(c) Broad potentials of non-conventional evergy sources estimated on country-wide basis are given in attached Statement-II.

(d) The Target and achievements made under various non-conventional evergy sources during Eighth Five Year Plan period are given in attached Statement-III.

(e) The proposals for developing various non-conventional evergy sources in the country during the Ninth Five Year Plan are given in attached Statement -IV.

Statement-I

Various Non-Conventional Energy Systems/Devices installed in the State of Orissa and in the country as on 31st October,1997

Sl.	Programmes	Cumulative Achievements up to 31.03.1997 in	
		Orissa	National
1	2	3	4
1.	Biogas Plants (Nos.)	1,32, 297	25,38,992
2.	Improved Chulha (Nos.)	13,54,000	2,28,43,000
3.	Solar Energy Programme		
(i)	Solar Lanterns (Nos.)	1967	1,31,190
(ii)	Street Light Systems(Nos.)	2068	31,527
(iii)	Home light Systems(Nos.)	256	52,330
(iv)	Community Lighting/TV Systems(Nos.)	58	875
(v)	Solar Power packs (Nos./Capacity)	5 (33.91 k Wp)	184 (999 k Wp)
4.	Solar Cookers	2530	4,35,940
5.	Solar Thermal Systems	2,459 m^2	3,80,000 m^2
6.	Water Pumping wind Mills (Nos.)	322	3280
7.	Small Hydro power project(Nos./Capacity)	3(1.26 MW)	210(144.28 MW)

Statement-II

Potential of various types of Non-Conventional Energy Sources Estimated in India.

S.No.	Sources/System	Approximate Potential
1.	Biogas Plants (No.)	12 Million
2.	Improved chulha (No.)	120 Million
3.	Biomass	17,000 MW
4.	Solar photovoltaic	20 MW/sq.m.
5.	Solar Thermal Systems	35 MW/sq.m.
6.	Wind Power	20,000 MW
7.	Small Hydro power	10,000 MW
8.	Urban and Municipal wastes	1700 MW

Statement-III

Eighth Plan-Targets/Achievements

	Target	Achievements
1	2	3
# Biogas Plants (Nos.)	75 lacs	9.54 lacs
# Community/Institutional Biogas Plants (Nos.)	450	1337
# Improved Chulha (Nos.)	100 lacs	131.77
# Solar Cooker	3 lacs	1.99 lacs

1	2	3
# Solar Water Heating Systems	2.75 lac m^2 of solar thermal collector area	1.80 lac m^2 of solar thermal collector area
# SPV Systems	3 MW aggregate Capacity	6.11 MW aggreg-ate Cap-acity
# Wind Power	100 MW	860 MW
# Small Hydro Power	*200 MW*	*63 MW*
# Power From Biomass/ Bioenergy	*300 MW*	*115 MW*
# IREP	500 New Blocks	408 New Blocks

Statement - IV

Programme-wise Ninth plan: Physical Targets

Sl.No.	Programme/Sub-Programme	Unit	Physical Targets
1.	Family Biogas plants	lakh Nos.	14.50
2.	CBP/IBP/NBP	Nos.	4000
3.	Improved Chulhas	Lakh Nos.	250
4.	Biomass Standalone		
	a. Gasifier Systems	MW	50
	b. Village Electrifications	Nos.	200
5.	Intergrated Rural Energy Programme (New Blocks)	Nos.	750
6.	Urjagram/Energy Survey	Nos.	125/500
7.	Special Area Demons.	Nos.	400
8.	Animal Energy	Nos. (Block)	150
	II. SOLAR ENERGY		
9.	Solar Photovoltaic Programme		
	a. SPV Street Lights	Nos.	-
	b. SPV Domestic Lights	lakh Nos.	5
	c. SPV Lanterns	lakh Nos.	10
	d. SPV Power plants (Small) MWp]		5
	e. Other Systems MWp]		
10.	SPV Irrigation Pumps	Nos.	10,000
11.	Solar Thermal Energy Programme		
	a. Solar Water Heating Systems	lakh sq.m. Coll. Area	13.00
	b. Solar Cookers	lakh Nos.	5
12.	Wind pumps & Hybrid sys.		
	a. Wind Pumps	*Nos.*	*1500]*
	b. Wind Battery Chargers	*KW*	*700]*
13.	Wind Power	MW	2000
14.	Small Hydro Power	MW	400*
			(266)**
15.	Biomass Power	MW	500 *
			(395)**
16.	Solar Thermal Power	MW	150]
17.	Solar Photovoltaic Power	MW	10]
18.	Urban & Industrial Energy Projects	MW	86
19.	Alternate Fuel for Surface Transportation a. Battery Operated Vehicl	Nos.	1000

* Sanctioning. ** Commissioning.

[Translation]

Wind and Hydro Energy Generation in Bihar

262. SHRI JAGDAMBI PRASAD YADAV : Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state :

(a) whether there is any scheme for wind and hydro energy generation by the Central Government itself or through private participation in Bihar;

(b) if so, the details there of ;

(c) whether the Government propose to take up such schemes also in the Ninth Five Year plan; and

(d) the number of projects undertaken for power generation through non-conventional resources during the last five years alongwith details thereof and the number of projects undertaken during the current year?